



TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions

Release Notes

Version 8.5.0

April 2021



Contents

New Features 3

Changes in Platform Support 5

Changes in Functionality 6

Deprecated and Removed Features 7

Migration and Compatibility 8

Closed Issues 11

Known Issues 12

TIBCO Documentation and Support Services 17

Legal and Third-Party Notices 18

New Features

The following new features have been added in version 8.5.0 of TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions.

- **The plug-in now supports the below features without the need for messaging, i.e. TIBCO Enterprise Message Service or Apache Kafka.**
 - **IDoc Listener Activity**
Receiving IDocs from SAP System.
 - **New Activity: IDoc Converter**
The IDoc Converter activity is added to the SAP palette.
Converting Raw IDoc to XML output.
 - **Post IDoc to SAP Activity**
Confirmation of IDoc following posting of IDoc to SAP system.
- **TIDManager Shared Resource**
 - This release adds support for the following databases for TIDManager Shared Resource:

Database	Versions
MySQL Database	5.7.x and 8.x
MS SQL Server	2019
Oracle Database	18c and 19c
PostgreSQL	12.x

- The TIDManager Shared Resource now supports Data Direct JDBC drivers included in TIBCO ActiveMatrix BusinessWorks™
- **Migrating ActiveMatrix BusinessWorks™ 6.x Adapter Projects and AE Palette Projects**
You can migrate ActiveMatrix BusinessWorks 6.x projects that contain SAP Adapter Configurations and processes with references to AE Palettes to TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions.

The following Adapter Services can be migrated to plug-in activities:

- Publication Service
- Subscription Service
- Request Response Service
- Request Response Invocation Service

The following databases are used for TIDManager Shared Resource as part of migration:

- MS SQL Server
- Oracle Database

- **Support for SAP S/4HANA**

The plug-in supports the following versions for SAP S/4HANA:

- 2020 (On-Premise version only)
- HANA Enterprise Cloud
 - 1709 HEC
 - 1809 HEC
 - 1909 HEC
 - 2020 HEC

- **Support for SAP BW/4HANA 2.x (ODP or RFC only)**

The plug-in supports SAP BW/4HANA 2.x (ODP or RFC only)

- **Support for SAP Solution Manager 7.2.x (RFC only)**

The plug-in supports SAP Solution Manager 7.2.x (RFC only)

- **Support for TIBCO ActiveMatrix BusinessWorks™ 6.7.x**

The plug-in supports TIBCO ActiveMatrix BusinessWorks™ 6.7.x

- **Support for TIBCO BusinessWorks™ Container Edition 2.6.x**

The plug-in supports TIBCO BusinessWorks™ Container Edition 2.6.x

Changes in Platform Support

The following table lists the changes in platform support in version 8.5.0 of ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions. For a complete list of all the currently supported platforms, see the readme file.

Platform	Status	As of Release	Notes
Apple Mac OS X 10.11.x, 10.12.x on x86-64	Dropped	8.5.0	
Novell SUSE Linux Enterprise Server 11.x on x86-64	Dropped	8.5.0	
Red HAT Enterprise Linux Server 6.x 64-bit on x86-64	Dropped	8.5.0	
Red HAT Enterprise Linux Server 8.x 64-bit on x86-64	Added	8.5.0	

Changes in Functionality

The following are the changes in functionality in version 8.5.0 of ActiveMatrix BusinessWorks Plug-in for SAP Solutions.

- When using the Dynamic Connection activity, if the connection is unable to be established due to invalid password then the plug-in does not automatically re-connect and displays the TIBCO-BW-SR-SAPCONNECTION-501001 error code.



To enable this change and receive the different error and message code, set the Java property `com.tibco.bw.palette.sap.clientLogonError.disableReconnect` to true.

- When using the Post Doc to SAP activity, the CPIC ID attribute available on the output is only populated in case of Dynamic Connection.
- When using the below plug-in activities in a ActiveMatrix BusinessWorks process, the SAP Schema is no longer inline and is now a reference
 - IDoc Renderer activity
 - Post IDoc to SAP activity
 - Reply from RFC/BAPI in SAP activity



For the existing inline schema activities mentioned above, it is possible to execute them as they are in ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.0. However, if you refresh the schema for those existing inline schema activities, then a manual fix in the mapping for those activities is required.

- **Post IDoc to SAP activity**

When selecting IDoc Confirmation mode, if the mode is changed to None or NoMessaging from JMS, then the JMS Connection process property created automatically must be deleted manually

Deprecated and Removed Features

The following are the deprecated and removed features in version 8.5.0 of ActiveMatrix BusinessWorks Plug-in for SAP Solutions.

Deprecated Features

Release 8.5.0

- Support for migration of ActiveMatrix BusinessWorks 6.x Adapter Projects and AE Palette Projects.
- TIBCO Adapter Framework 1.6.0 -1.6.x
- Support for IBM AIX 7.1, 7.2 64-bit on pSeries (Runtime only)
- Support for Oracle Solaris 11 64-bit on SPARC (Runtime only)
- Support for Oracle Solaris 11 64-bit on x86-64 (Runtime only)

Removed Features

Release 8.5.0

- SAP JCo 3.0.x libraries
- SAP NetWeaver BW or BI 7.0-7.5 (ODS or RFC only)
- SAP S/4HANA 1511 and 1610
- MS SQL Server 2008 R2 for TIDManager Shared Resource
- Oracle Database 11g 11.1.x and 11.2.x for TIDManager Shared Resource
- TIBCO Enterprise Message Service 8.0, 8.1, 8.2, 8.3, 8.4, and 8.5.0

Migration and Compatibility

The following instructions explain how to migrate projects to version 8.5.0 of ActiveMatrix BusinessWorks Plug-in for SAP Solutions from an earlier version.



- You can migrate projects from version 8.3.0 or 8.4.0 to version 8.5.0 of ActiveMatrix BusinessWorks Plug-in for SAP Solutions in TIBCO Business Studio™ for BusinessWorks™.
- If you want to migrate projects that have been created in a version earlier than version 8.3.0, you must first migrate the project to version 8.3.0 and then perform the procedure to migrate the projects.

Migrating Projects from Version 8.3.0 or 8.4.0 to Version 8.5.0

1. In TIBCO Business Studio, export the projects created in version 8.3.0 or 8.4.0 to a local disk.
 - a. From the menu, click **File > Export**.
 - b. In the Export dialog box, expand **General**, select **Studio Projects to Archive**, and then click **Next**.
 - c. In the Export Project dialog box, select the projects that you want to export and specify export <path>/<destination> in the **To Archive File** field.
 - d. Click **Finish** to export the selected projects.
2. Uninstall ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.3.0 or 8.4.0.
3. Install TIBCO ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.0.
4. Start TIBCO Business Studio and create a workspace.
5. In the workspace, import the previously exported projects.
 - a. From the menu, click **File > Import**.
 - b. In the Import dialog box, expand **General**, select **Existing Studio Projects into Workspace** and then click **Next**.
 - c. In the Import Projects dialog box, click **Browse** next to the **Select archive file** field to select the projects that you want to import.

When importing an existing project to the current workspace of TIBCO Business Studio™, if you click **Select root directory** in the Import Projects dialog, you must select the **Copy projects into workspace** check box.
 - d. Click **Finish**.
6. Perform the following operations to refactor the imported projects:
 - a. Right-click the project and click **Refactor > Repair BusinessWorks Projects**.
 - b. In the Repair BusinessWorks Projects dialog box, ensure that the **Upgrade SAP Plugin Configuration to Current Version** check box is selected.
 - c. Click **OK**.

For more details about the import and export procedures, see the *ActiveMatrix BusinessWorks* documentation.

Migrating projects from version 7.2.1 of TIBCO ActiveMatrix® Adapter for SAP

To support adapter to plug-in migration, perform the following steps:

1. Install ActiveMatrix BusinessWorks or TIBCO BusinessWorks™ Container Edition

2. Install TIBCO ActiveMatrix® Adapter Migration
3. Install ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.0



- Refer to the readme for compatible versions on any dependent products for step 1 and 2.
- The migration of ActiveMatrix BusinessWorks 5.x projects saved as design-time libraries is not supported.

To migrate projects created in version 7.2.1 of TIBCO ActiveMatrix® Adapter for SAP:

1. Click **Project > Migrate BW Projects**.
2. In the BW Project Migration window, select the ActiveMatrix BusinessWorks 5.x project to be migrated and the migrated project folder, and then click **Migrate**.

For more information about migration, see "Migrating Projects" in the *TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions User's Guide*.

For more details about the import and export procedures, see the *ActiveMatrix BusinessWorks* documentation.

EAR file Compatibility From Version 8.3.0 or 8.4.0 to 8.5.0

The ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.0 allows the compatibility of EAR files created from the version 8.3.0 or 8.4.0.

If you are using an EAR file from 8.3.0 or 8.4.0 using a new appspace and appnode then you are only required to redeploy the EAR file.

If you are using an EAR file from 8.3.0 or 8.4.0 using an existing appspace and appnode then below steps are required.

1. Shut down any appnodes running ActiveMatrix BusinessWorks Plug-in for SAP Solutions applications.
2. Uninstall ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.3.0 or 8.4.0.
3. Install ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.0.
4. After the successful installation of version 8.5.0, set the **bw.appnode.clean.config.folder.on.startup** property as true in the `config.ini` file for appnode.
5. Restart any required appnodes.

TIBCO BusinessWorks Container Edition™ (BWCE) Compatibility from Version 8.3.0 or 8.4.0 to 8.5.0

Design time:

To migrate a project from a version 8.3.0 or 8.4.0 to version 8.5.0, import the project created using the version 8.3.0 or 8.4.0 directly to a TIBCO BusinessWorks Container Edition environment having the version 8.5.0.

Run time:

EAR Generated in 8.3.0 or 8.4.0 can be directly used in 8.5.0.

Updating the SAP JCo libraries

In version 8.5.0, you do not have to uninstall and then reinstall the plug-in to upgrade SAP JCo libraries. For more information about updating SAP JCo libraries, see the "Updating SAP JCo Libraries" section in the *TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions Installation Guide*.

Migrating ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.x to TIBCO ActiveMatrix BusinessWorks™ Plug-in for OData Services for SAP S/4HANA 6.2.1-6.2.x projects

For more information about migrating ActiveMatrix BusinessWorks Plug-in for SAP Solutions 8.5.x to ActiveMatrix BusinessWorks Plug-in for OData Services for SAP S/4HANA 6.2.1-6.2.x projects, see

"Migrating projects from SAP ECC to SAP S/4HANA" in the *TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions* User's Guide.

Closed Issues

The table lists closed issues in version 8.5.0 of TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions.

Key	Summary
SAPB-2547	<p>When the IDoc Listener activity receives an IDoc data where the SDATA contains an EOL character, the raw IDoc data placed in the JMS queue is not correct.</p> <p>If the IDoc data contains one or more EOL characters then the Java property <code>com.tibco.bw.palette.sap.IDocCustomDelimiter</code> must be specified. The value of the Java property is of type string and is printed after each IDoc data segment as part of the raw IDoc placed in the JMS queue.</p> <p>If the <code>com.tibco.bw.palette.sap.IDocCustomDelimiter</code> Java property is set, then the <code>com.tibco.bw.palette.sap.escapeEOLCharacters</code> Java property should not be set.</p>
SAPB-2393	<p>The IDoc Parser activity does not throw an error if the IDoc data has invalid characters.</p> <p>If the acknowledge mode is set to Client, a new event is generated so that event context is available for the Confirm activity to confirm the message. If acknowledge mode is set to Auto, the IDoc Parser Fault is generated.</p>
SAPB-2345	The Post IDoc to SAP activity generates a timeout error while processing significant number of IDocs.
SAPB-2308	After fetching and refreshing the RFC schema in the Invoke RFC BAPI for SAP activity, the schema does not get updated in the process even though it is already updated in the SAP system.
SAPB-1912	The active mode in SAP TIDManager shared resource does not work in TIBCO BusinessWorks™ Container Edition.
SAPB-978	When importing a project created in version 8.1.1 to version 8.2.0, if the project contains the IDoc Reader and Invoke RFC/BAPI in SAP activities then the output schema does not reflect 8.2.0 configuration.

Known Issues

The table lists known issues in version 8.5.0 of TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions.

Key	Summary
SAPB-2729	<p>Summary: After TIBCO ActiveMatrix BusinessWorks™ 5.x Adapter to Plug-in migration, the Input tab in the Respond to Adapter Request activity is empty.</p> <p>Workaround: After migration, delete the Reply from RFC BAPI in SAP activity and re-add the activity, and then select the value for Reply For field in the General Tab.</p>
SAPB-2643	<p>Summary: When refactoring TIBCO ActiveMatrix BusinessWorks™ 6.x projects that contains the ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions activities to TIBCO ActiveMatrix BusinessWorks™ Plug-in for OData Services for SAP S/4HANA activities, the mapper activity in the refactored project results in an unresolved reference to input schema.</p> <p>Workaround: Make changes to the activity to enable the save to autocorrect the reference.</p>
SAPB-2621	<p>Summary: After migrating a TIBCO ActiveMatrix® Adapter for SAP 5.x or 6.x configuration to a ActiveMatrix BusinessWorks™ project containing ActiveMatrix BusinessWorks Plug-in for SAP Solutions activities, any test SAP client connections fail.</p> <p>Workaround: Prior to adding the test connection in SAP Adapter configuration, migrate all required ActiveMatrix® Adapter for SAP 5.x or 6.x configurations to a ActiveMatrix BusinessWorks project and then restart TIBCO Business Studio™ for BusinessWorks™.</p>
SAPB-2337	<p>Summary: While starting ActiveMatrix BusinessWorks application where current status is STARTFAILED in bwadmin, the application is unable to start successfully.</p> <p>Workaround: Restart the corresponding appnode or confirm fix for AMBW-40039 is available in the ActiveMatrix BusinessWorks release being used.</p>
SAPB-2318	<p>Summary: For Adapter to Plug-in migration, when the ActiveMatrix BusinessWorks 5.x process contains the AE Palette activity, Invoke an Adapter Request-Response service and the ActiveMatrix BusinessWorks 6.x workspace is new, a migration error is observed due to references to the Invoke RFC/BAPI in SAP activity instead of the added mapper activity.</p> <p>Workaround: Delete the migration project from workspace and perform the migration steps again.</p>
SAPB-2277	<p>Summary: When migrating from SAP ECC to SAPS/4HANA, if the SAP project has multiple InvokeRFCBAPI activities that have the same schema, the configuration in the JSON preference file is applied to all the selected InvokeRFCBAPI activities in the project that are using that schema.</p> <p>Workaround: None</p>

Key	Summary
SAPB-2058	<p>Summary: When selecting the messaging source from SAP connection resource, user is able to configure different MessageSource in IDocListener activity and SAPConnection Resource.</p> <p>Workaround: MessageSource from both IDocListener and SAPConnection should be in sync with each other.</p>
SAPB-2052	<p>Summary: When the IDocListener activity is executed for the first time on Kafka, and if the Kafka properties are left blank, an error occurs.</p> <p>Workaround: Give any property from Kafka or add the key:value pair and execute. Then remove the property and it will not throw any error if Kafka Properties field is empty.</p>
SAPB-2042	<p>Summary: When multiple bootstrap servers are provided, only the last entry is validated.</p> <p>Workaround: None</p>
SAPB-1905	<p>Summary: When we change any module property in TEA for the deployed application and on the start of the application errors occur in log but application starts.</p> <p>Workaround: Stop the application in TEA and update the module property SAPPASSWORD and start the application again. It will start without any errors.</p>
SAPB-1801	<p>Summary: When a new mapper activity is added to the existing process, after importing the extracted projects to a workspace with Copy projects into workspace option, you cannot view the previously fetched input schemas list to map to 'mapper'.</p> <p>Workaround: One of the following workaround's can be used.</p> <ul style="list-style-type: none"> • Use Refresh API button in connection resource to re-fetch the schema. • When importing projects, do not select Copy projects into workspace option.
SAPB-1737	<p>Summary: While using the tRFC invocation protocol, when a fault is captured, the input data on the Invoke RFC/BAPI in SAP activity is not available as part of the fault job.</p> <p>Workaround: None</p>
SAPB-1596	<p>Summary: Migration of an AE activity (Invoke an Adapter Request-Response service) that does not have an adapter service mapped, is not supported.</p> <p>Workaround: None</p>
SAPB-1468	<p>Summary: Migrating a project that has a request response and request response invocation service generates a <i>not valid BPEL import error</i>.</p> <p>Workaround: Click the Process > Dependencies tab and remove the import causing the error.</p>
SAPB-1384	<p>Summary: After migration, the setting of the language code "A" in the JSON file is migrated to Afrikaans. It must be Arabic.</p> <p>Workaround: Select Afrikaans or Arabic manually.</p>

Key	Summary
SAPB-1339	<p>Summary: The installation of Adapter to Plugin Migration feature fails with P2 installation.</p> <p>Workaround: Install P2 using TIBCO Universal Installer and select the Adapter to Plugin Migration installation profile.</p>
SAPB-1333	<p>Summary: After migration, the XSLT is out of sync error occurs.</p> <p>Workaround: Right-click the input mapping and select Show Check and Repair.</p>
SAPB-1260	<p>Summary: During migration of the schemas from ActiveMatrix BusinessWorks 5.x project, the Table Type field is optional even though it is required for mapping after migration.</p> <p>Workaround: Manually add the value for the field.</p>
SAPB-1237	<p>Summary: After migrating Respond to Adapter Request activity of ActiveMatrix® Adapter for SAP, the processStarterResponse input element shows duplicate values.</p> <p>Workaround: Select Show Check and Repair and manually fix the error.</p>
SAPB-1163	<p>Summary: Upgrade to a later plug-in version does not work.</p> <p>Workaround: Uninstall the existing version of the plug-in and then install the later version.</p>
SAPB-1154	<p>Summary: During configuration of the IDoc Acknowledgment activity, the <any element> appears in the Fault schema.</p> <p>Workaround: <any element> should not be used and ignored.</p>
SAPB-1136	<p>Summary: If an error occurs when connecting to the IDoc Confirmation JMS Queue and IDoc confirmation mode is set to JMS, then in the Post IDoc to SAP activity the IDoc is not available in the fault data.</p> <p>Workaround: None</p>
SAPB-1032	<p>Summary: If the Receive IDoc Destination JMS queue contains a message before the IDoc Parser activity starts, the messages are not processed concurrently based on the JMS maxSessions configuration.</p> <p>Workaround: None</p>
SAPB-849	<p>Summary: When invoking an RFC/BAPI in the SAP system as part of a transaction by using a connection created by the Dynamic Connection activity, if a specified context timeout occurs, the return from the SAP system fails.</p> <p>Workaround: Change the value of the contextTimeout input item in the Dynamic Connection activity to avoid the timeout.</p>
SAPB-753	<p>Summary: When using the SNC connection type for the Dynamic Connection activity, the usage of Single-Sign-On (SSO) and X.509 certificates does not work.</p> <p>Workaround: None.</p>

Key	Summary
SAPB-739	<p>Summary: When the IDoc Parser and IDoc Reader activities are processing messages, if an EMS server restarts, duplicate messages are processed.</p> <p>Workaround: None</p>
SAPB-710	<p>Summary: The connections created by the Dynamic Connection activity cannot be cloned.</p> <p>Workaround: When creating a dynamic connection, specify the connection parameters in the input schema of the Dynamic Connection activity.</p>
SAPB-654	<p>Summary: The Dynamic Connection activity used for transactions does not work.</p> <p>Workaround: Use the SAP Connection shared resource.</p>
SAPB-588	<p>Summary: When changing the SAP Connecting shared resource name for the IDoc Parser and IDoc Reader activities, the values of the properties related to this shared resource are incorrect.</p> <p>Workaround: After selecting the different SAP Connection shared resource, download the appropriate SAP IDoc schema again.</p>
SAPB-577	<p>Summary: When starting an application, if the processes associated with the application contain multiple IDoc Parser, IDoc Reader, or Post IDoc activities referencing the same SAP IDoc message, an exception occurs.</p> <p>Workaround: Create a separate application for each occurrence.</p>
SAPB-512	<p>Summary: When Oracle Database is used for the SAP TIDManager shared resource and the database exists in the environment where ActiveMatrix BusinessWorks exists, if the database connectivity is disrupted, the plug-in does not reconnect to the database.</p> <p>Workaround: Install Oracle Database in an environment where ActiveMatrix BusinessWorks is not installed.</p>
SAPB-510	<p>Summary: When posting IDocs to the SAP system by using only one ActiveMatrix BusinessWorks engine, the actual number of messages processed concurrently is different from the value configured in the Max Session field of the IDoc Reader activity.</p> <p>Workaround: Use multiple ActiveMatrix BusinessWorks engines to post IDocs to the SAP system.</p>
SAPB-480	<p>Summary: The IDoc Confirmation, IDoc Parser, and IDoc Reader activities are not compatible with the startprocessstarters and stopprocessstarters commands of the bwadmin utility.</p> <p>Workaround: None.</p>
SAPB-263	<p>Summary: When running an ActiveMatrix BusinessWorks project containing the IDoc Listener and RFC BAPI Listener activities, if the activities use the same SAP Connection shared resource, the following exception might occur:</p> <p>Error Message: check TID fault: No transaction handler is installed. Unable to process tRFC/qRFC requests</p> <p>Workaround: Put the IDoc Listener and RFC BAPI Listener activities into two projects.</p>

Key	Summary
SAPB-223	Summary: The DECF16 and DECF34 data types are not supported. Workaround: None.
SAPB-51	Summary: The SAP Connection shared resource cannot be renamed. Workaround: None.

TIBCO Documentation and Support Services

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Documentation for TIBCO products is available on the [TIBCO Product Documentation](#) website, mainly in HTML and PDF formats.

The [TIBCO Product Documentation](#) website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documents for this product are available on the [TIBCO ActiveMatrix BusinessWorks™ Plug-in for SAP Solutions](#) page.

- *TIBCO ActiveMatrix BusinessWorks Plug-in for SAP Solutions Release Notes*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for SAP Solutions Installation*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for SAP Solutions User's Guide*

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